

Air Warrior (U.S. Army)

http://en.wikipedia.org/wiki/Air_Warrior_%28U.S._Army%29

Air Warrior (AW) is a modular, integrated, rapidly reconfigurable combat aircrew ensemble designed for U.S. Army aircrews. Previous aviation life support equipment consisted of a non-integrated assemblage of protective and survival gear. AW uses a systems approach to equipping the aircrew and closes the capability gap between human and machine. Fielded incrementally in blocks to rapidly provide enhanced capabilities to the warfighter, AW leverages and integrates clothing and equipment, such as the Army Aircrew Combat Uniform and ballistic protection, from other product managers. As of April 2010, more than 18,000 AW systems had been fielded in support of OIF and OEF.

Components

Electronic Data Manager

The Spiral 3 Electronic Data Manager (EDM) is a light, rugged, sunlight-readable touch-screen computer operating on Windows-based software. The EDM is in the form of a kneeboard and provides the aviator with an Aviation Mission Planning System interface, enhanced situational awareness, GPS moving map capabilities, and enables the aircrew to quickly plan and safely execute missions and react rapidly to mission changes in flight. The Spiral 3 EDM is fielding to units deploying in support of Operation Enduring Freedom and Operation Iraqi Freedom. More than 1,200 Spiral 3 EDMS have been fielded. Portable Helicopter Oxygen Delivery System (PHODS)

Portable Helicopter Oxygen Delivery System

The Portable Helicopter Oxygen Delivery System (PHODS) is a lightweight breathing oxygen product worn by the aircrew that provides supplemental oxygen to Soldiers without restricting their movements in and around their aircraft. An automatic regulator dispenses oxygen via nasal cannula in the correct amount and rate based upon altitude and the individual's breathing rate. It replaces the Helicopter Oxygen System, which weighed well over 100 pounds, tethered the user to the aircraft, and could not be fitted on all Army rotary wing aircraft. Over 1,700 systems have been as of mid-2010.

Aircraft Wireless Intercom System

The Aircraft Wireless Intercom System (AWIS) provides hands-free, cordless communication between aircrew members. The system has a full duplex voice-activated mode, hands-free mode, and a push-to-talk mode. It features fifty independent channels (aircraft networks) with up to six crew members on each aircraft network. AWIS enables simultaneous omnidirectional communications among all users in the aircraft network within 200 feet of the center of the aircraft and provides the first true intercom capability between the entire aircraft crew, hoist

operators, and rescue personnel on the hoist. Over 130 systems are fielded as of mid-2010 and an encryption capability will be added in Fiscal Year 2011. Microclimate Cooling System